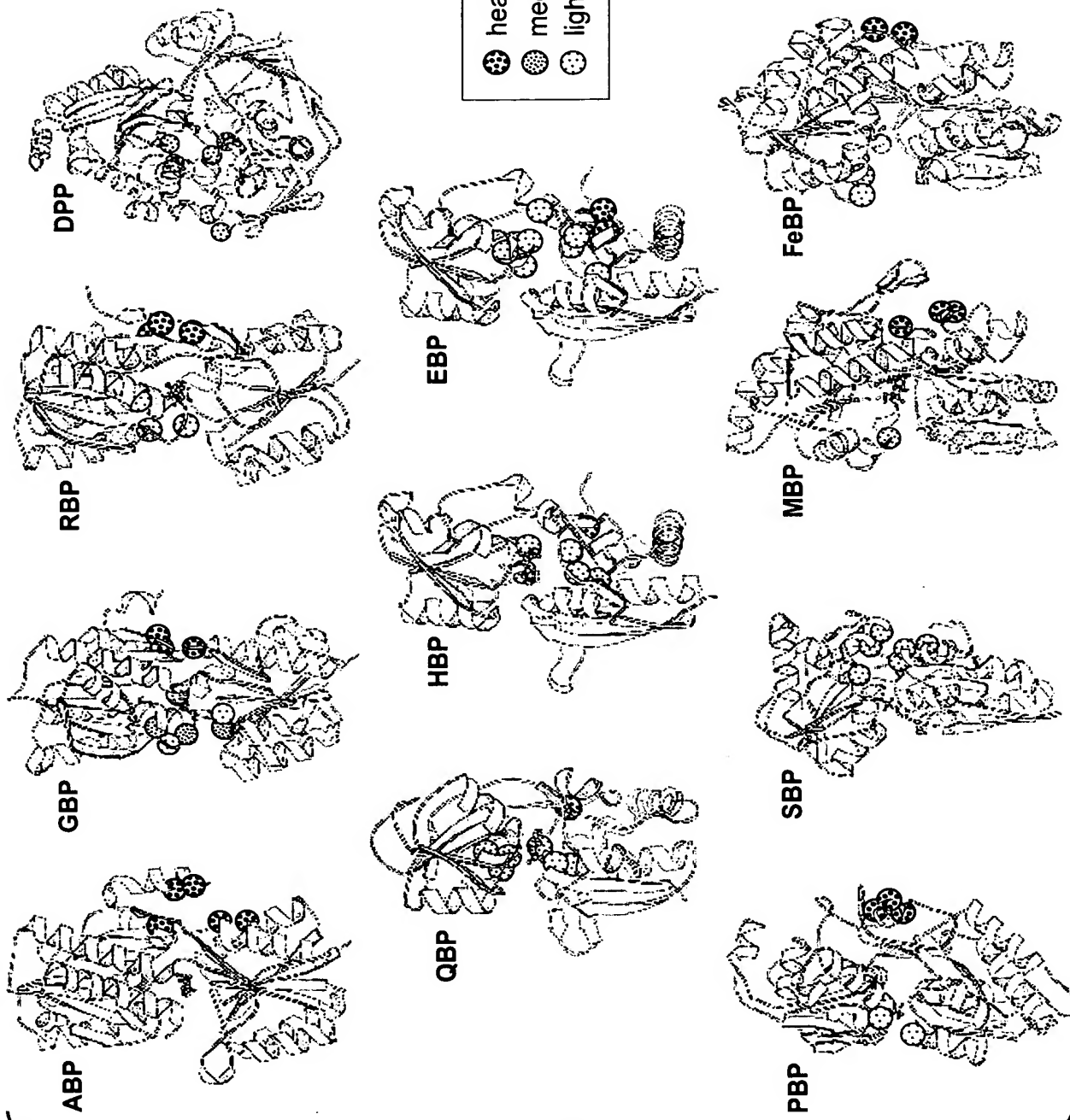




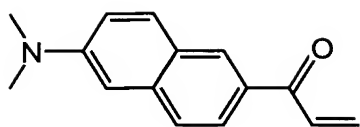
Appl. No. 10/686,529
Atty. Dkt.: 1579-863
REPLACEMENT SHEET
1 of 8

heavy shading
medium shading
light shading

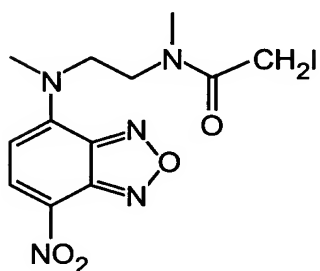


	47	67	87	107	127
gln BP	-----ADKKLVVATD	TAFVPFEFKQGD-KYVGFVDV	DLWAAIAKELK-----LD	YELKPMDFSGIIPALQTKNV	DLALAGITITDERKKAIDFS
his BP	-----AIPONIRIGTD	PTYAPFESKNSQGEIVGFDI	DLAKELCKRIN-----TQ	CTFVENPLDALIPSLKAKKI	DAIMSSLSITEKRQOEIAFT
YBEJ	MAGSTLDKIAKNGVIVVGHR	ESSVPFSYYDNQKVVGYSD	DYSNAIVEAVKKKLNKPDQ	VKLIPITSQNRIPLLQNGTF	DFECGSTTNNVERQKQAIFS
					p p a
	147	166	186	206	226
gln BP	DGYKSGLLVMVKANNNDVK	SVKOLDGKVVAVKSGTGSVD	YAKANIKTK--DLRQFPNID	N--AYMELGTNRADAVLIJDT	PNILY-FIKTAGNGQFKAVG
his BP	DKLYAADSRLLVAKNSDIQP	TVESLKGKRVGVI.QGITTQET	FGNEHWAPKGIIEIVSYQGD	N--LYSDLTAGRIDAAAFQDE	VAASEGFLKQPVGKDYKFGG
YBEJ	DTIFVVGTRLLT'KKGGD- IK	DFANLKD KAVVVTSGIT'TSEV	LLNKLNEEQKMNRIISAKD	HGDSFRTLES GRAVAFMMD	ALLAGERAKAKKPDNWEIVG
					pp pp
	241	261	281	301	
gln BP	DSLEAQOYG-----IAPPKG	SDELDRKVNKAL.KTILRENGT'	YNEIYKKWFGTEPK-----		
his BP	PSVKDEKLFGVGTGMGLRKE	DNELREALNKAFAMRADGT	YEKLAKKYFDFDVYGG-----		
YBEJ	KPOSQEAYG-----CMLRKD	DPQFKKLMDD'TIAQVQTSGE	AEKWFDKWFKNPIPPKNLNM	NFELSDMKALFKPEPNDKAL	N
					ppp

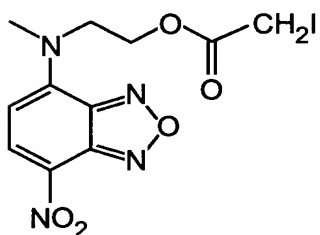
Fig. 2



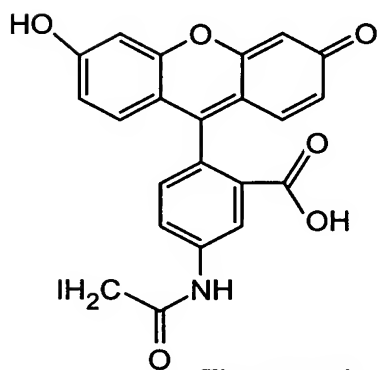
Acrylodan



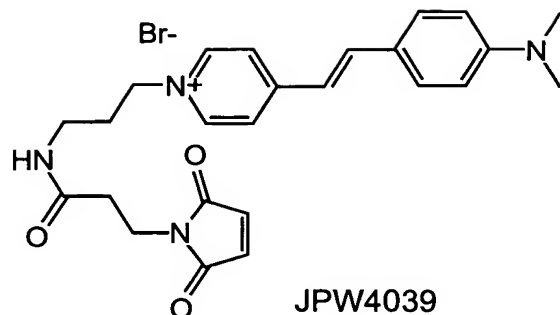
NBD



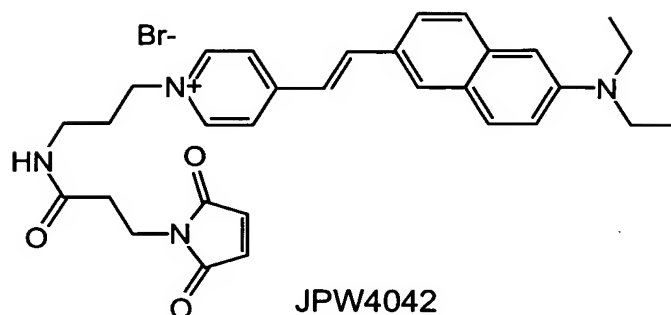
NBDE



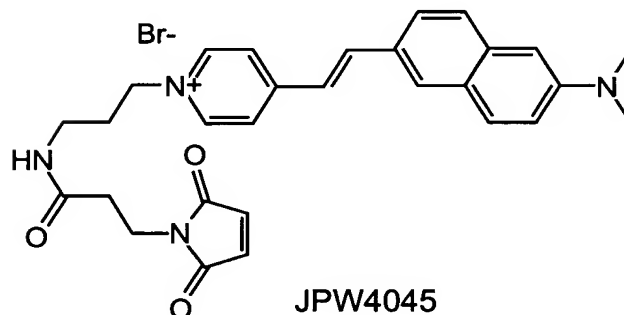
Fluorescein



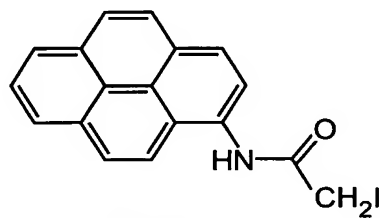
JPW4039



JPW4042



JPW4045



Pyrene

Fig. 3

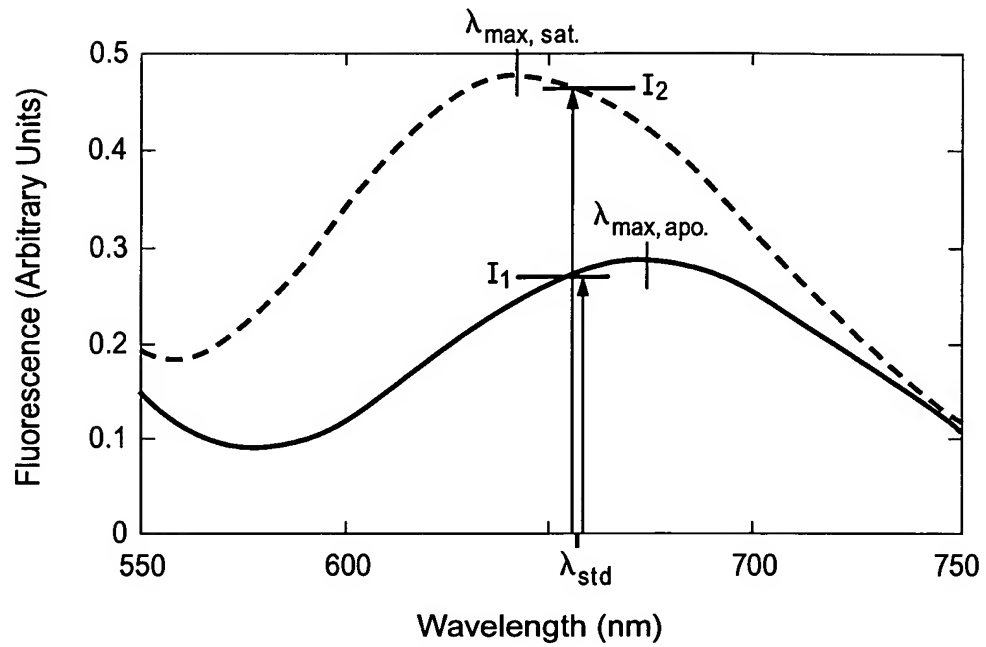


Fig. 4A

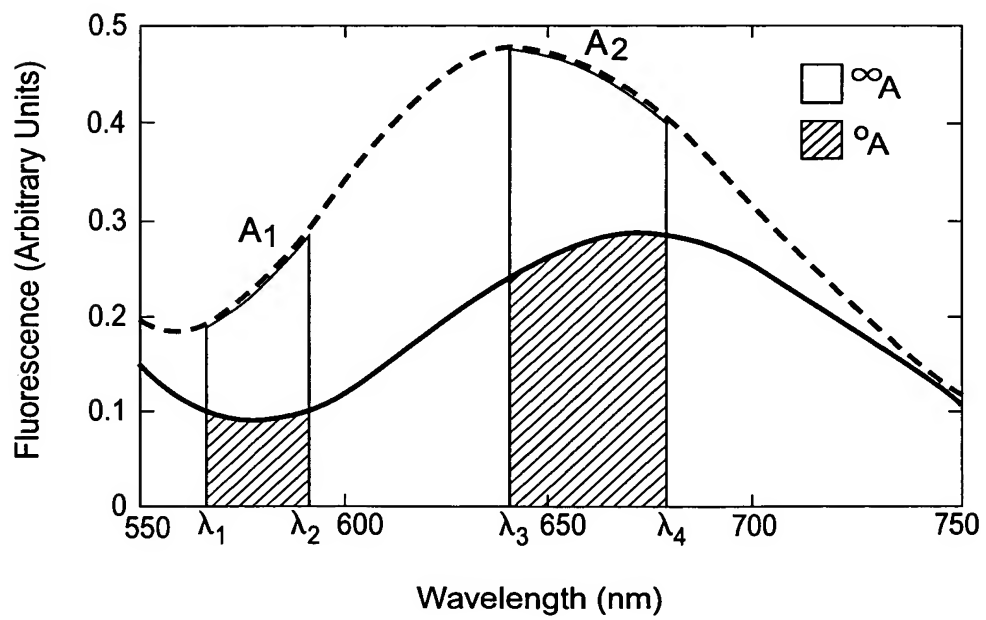


Fig. 4B

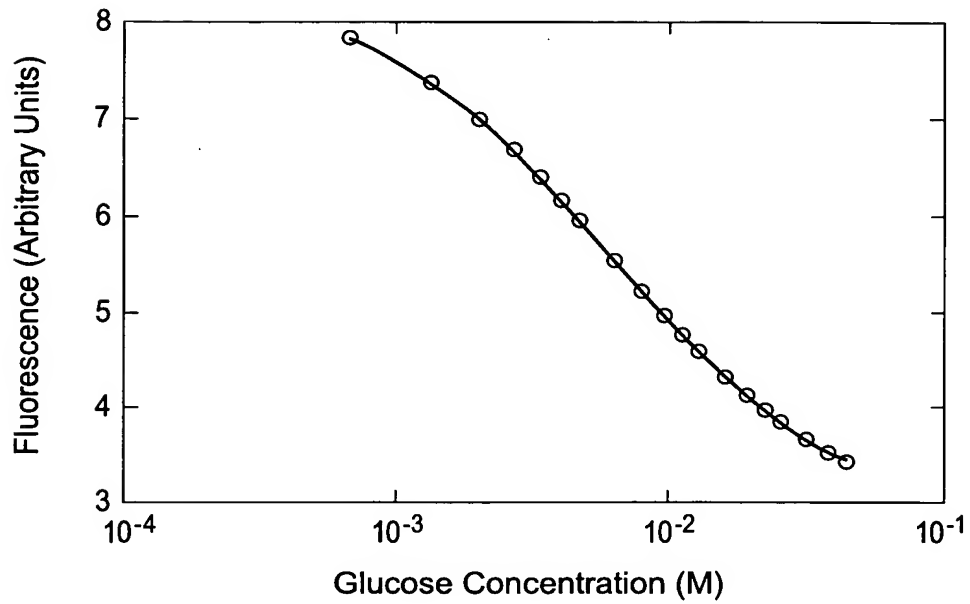


Fig. 5A

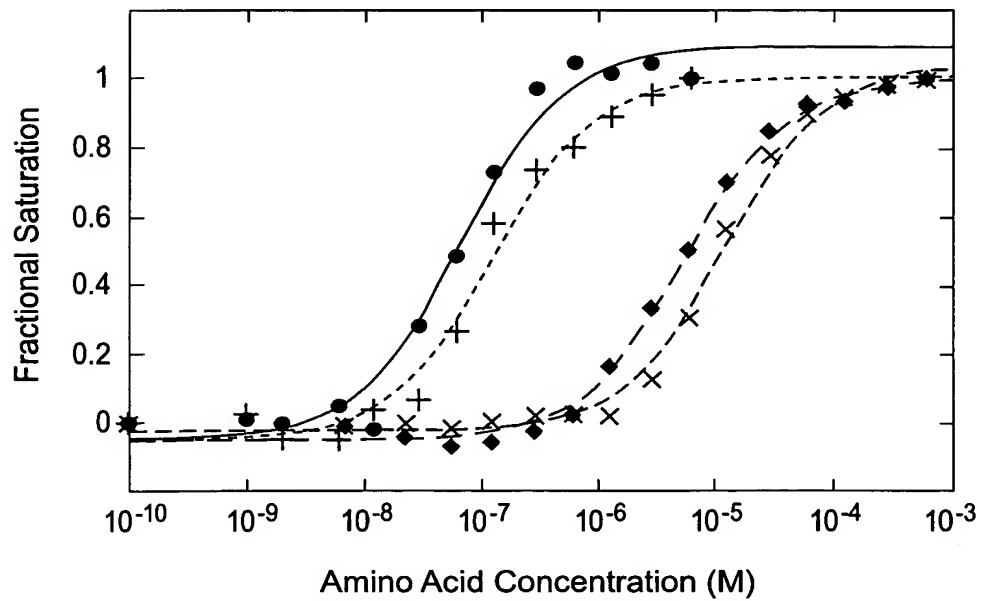


Fig. 5B

Fig. 6A

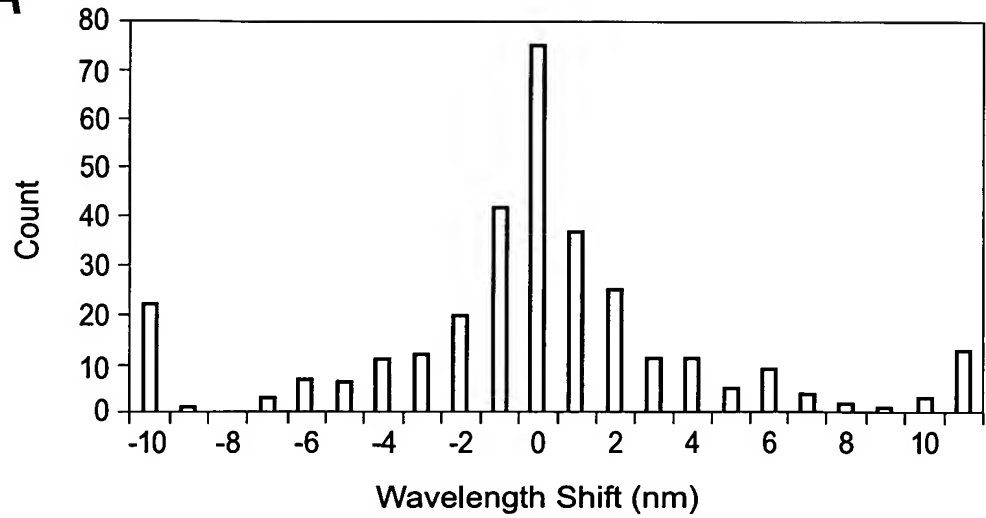


Fig. 6B

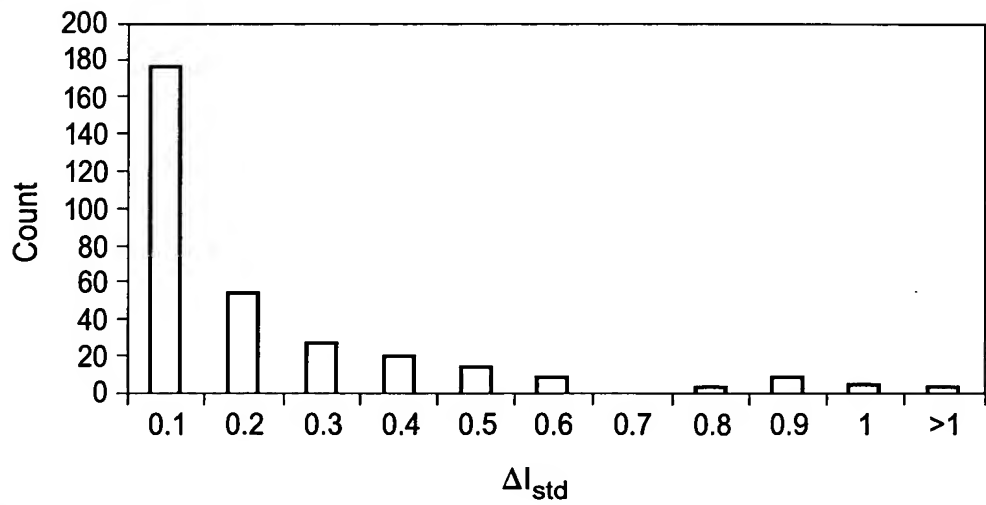
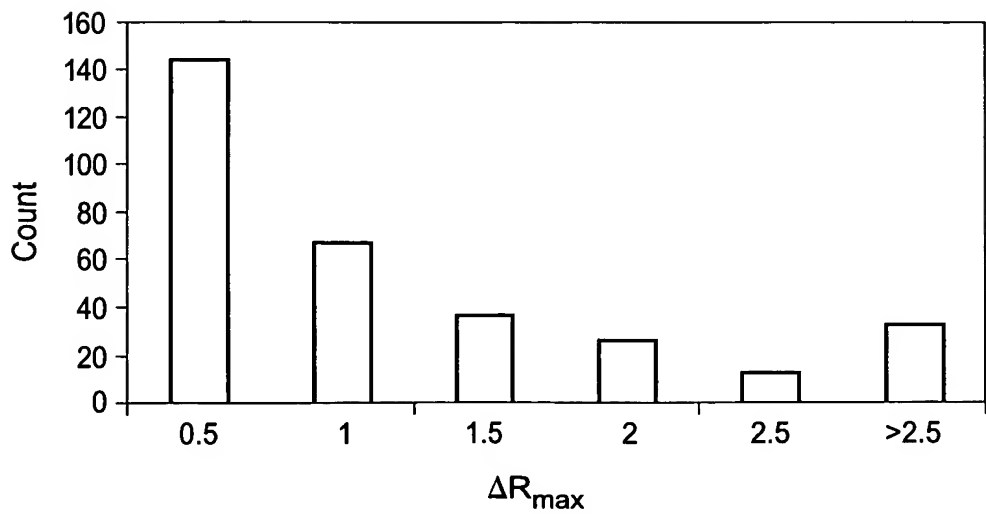


Fig. 6C



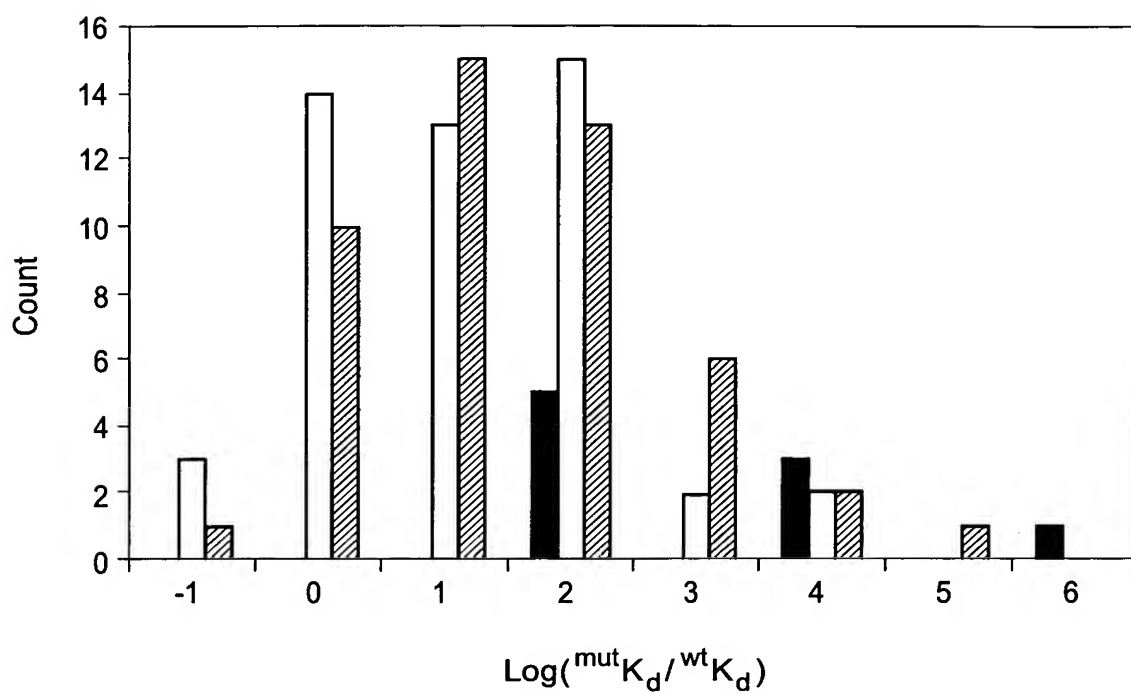


Fig. 7

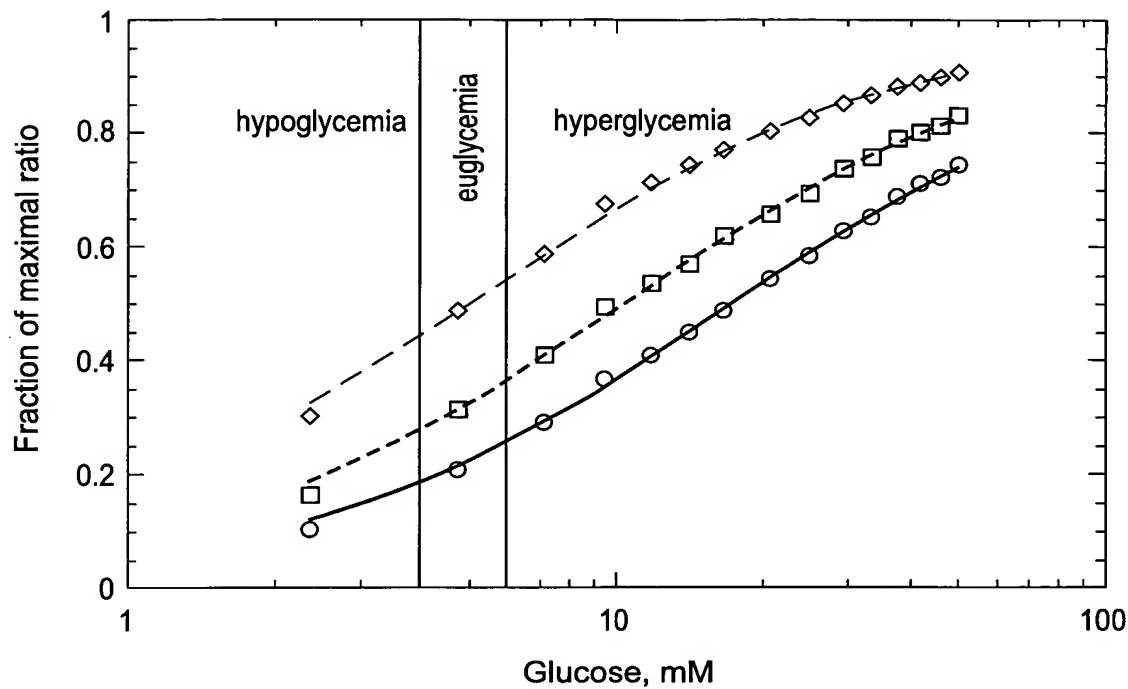


Fig. 8A

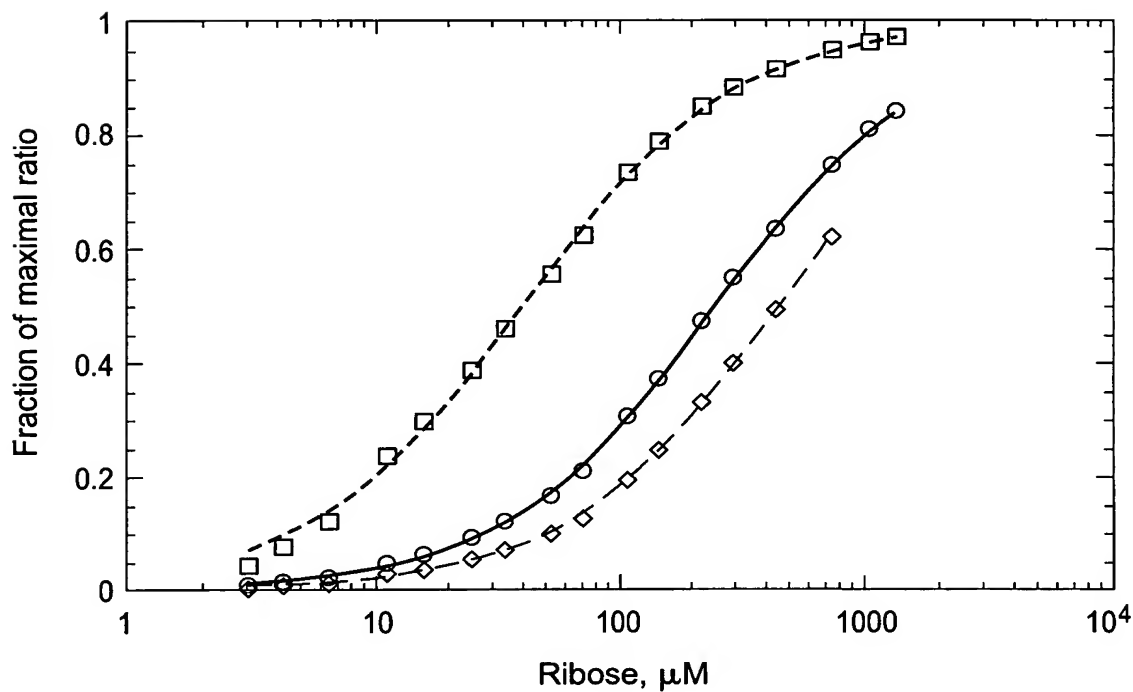


Fig. 8B